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(54) Title: **ORNITHOBACTERIUM RHINOTRACHEALE SUBUNIT VACCINES**

(57) Abstract: The present invention relates to nucleic acids encoding *Ornithobacterium rhinotracheale* proteins, to DNA fragments, recombinant DNA molecules, live recombinant carriers and to host cells comprising such nucleic acids. The present invention also relates to *Ornithobacterium rhinotracheale* proteins and to antibodies against such proteins. Another embodiment of the invention relates to such proteins for use in vaccines and to the use of such proteins in the manufacturing of such vaccines. Also an embodiment of the invention relates to vaccines comprising such nucleic acids, DNA fragments, recombinant DNA molecules, live recombinant carriers, host cells, proteins or antibodies against such proteins. Finally, again another embodiment of the invention relates to meth-
ods for the preparation of such vaccines.

WO 2005/077972 A1